

Port Physical Characteristic Configuration Commands

Table of Contents

Port Physical Characteristic Configuration Commands.....	1
Chapter 1 Port Physical Characteristic Configuration Commands.....	1
1.1 Port Physical Characteristic Configuration Commands.....	1
1.1.1 speed.....	1
1.1.2 duplex.....	2
1.1.3 flow-control.....	3

Chapter 1 Port Physical Characteristic Configuration Commands

1.1 Port Physical Characteristic Configuration Commands

Port Physical Characteristic Configuration commands include:

- speed
- duplex
- flow-control

1.1.1 speed

Syntax

To set the speed of the interface, run `speed {10| 100 | 1000 | auto}`.

speed {10 | 100 | 1000 | auto }

no speed

Parameters

Parameters	Description
<i>10, 100, 1000</i>	Sets the speed of an interface to 10M, 100M or 1000M.
<i>auto</i>	Sets the speed of the interface to auto.

Default Value

The speed of the electrical interface is auto, the speed of the 100M optical interface is 100M and the speed of the 1000M optical interface is 1000M.

Command Mode

UP interface configuration mode

Usage Guidelines

This command is configured in the uplink interface configuration mode.

Note:

The speed of the optical port is fixed. For instance, the rate of GBIC and GE-FX is 1000M. The rate of FE-FX is 100M. If there is auto parameter after the optical port

speed command, the interface can enable the auto-negotiation function. Otherwise, the interface is compulsory which can not be negotiated.

The ordinary TX port does not support speed 1000.

Example

The following example shows how to set the speed of interface g0/1 to 100M.

```
Switch_config# interface GigaEthernet0/1
```

```
Switch_config_g0/1#speed 100
```

1.1.2 duplex

Syntax

To set the duplex mode of an interface, run `duplex {auto | full | half}`.

duplex {*auto* | *full* | *half*}

no duplex

Parameters

Parameters	Description
auto	Automatic negotiation
full	Full duplex
half	Half duplex

Default Value

The electrical interface is in automatic negotiation mode , while the optical interface is in full duplex mode.

Command Mode

UP interface configuration mode

Usage Guidelines

This command is configured in uplink interface configuration mode.

Note:

The duplex mode of the optical interface is fixed, that is, the duplex mode of all optical interfaces is the full duplex mode. the optical/electrical combo port does not support compulsory gigabit and full duplex simultaneously. There is backpressure in half-duplex mode.

Example

The following example shows how to set the interface g0/1 to the full duplex mode.

```
Switch_config# interface GigaEthernet0/1
```

```
Switch_config_g0/1#duplex full
```

1.1.3 flow-control

Syntax

To configure flow control for an interface, run this command.

flow-control{auto |on | off}

no flow-control

Parameters

Parameters	Description
auto	Auto-negotiation Mode
on	Enables the flow control.
off	Disables the flow control.

Default Value

The flow control function is disabled by default.

Command Mode

UP interface configuration mode

Usage Guidelines

This command is configured in uplink interface configuration mode.

Note:

The difference between “flow-control auto” and “flow-control on” is in the “auto” mode the device sends flow control frame only when it negotiates successfully with the opposite end as the system is compelled to receive flow control frame in both modes.

Example

The following example shows how to enable the flow control function for port g0/1.

```
Switch_config# interface GigaEthernet0/1
Switch_config_g0/1#flow-control on
```